2012 Consumer Confidence Report

Water System Name:	HM Clause (Campbell's) PWS:570	U537 Report Date:	06/12/2013
S	r quality for many constituents as requing for the period of January 1 - Decen		
Este informe contiene in entienda bien.	formación muy importante sobre su	agua potable. Tradú	zcalo ó hable con alguien que lo
Type of water source(s) in	use: Well #1 (Domestic Well), W	ell #2 & #3 (Agricultur	e Wells)
Name & location of source	e(s): Water well #5700537 is loca	ated south of the main	building at 28605 Country
Road 104, Davis, CA 95	5616.		
Drinking Water Source As	ssessment information: Well #1 (Do	omestic well)	
Time and place of regular	ly scheduled board meetings for public	participation:	
For more information, con	ntact: Alejandro Martinez	Phone: (5	530) 297-3340

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (USEPA).

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Variances and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (µg/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

pCi/L: picocuries per liter (a measure of radiation)

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- *Pesticides and herbicides*, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities

In order to ensure that tap water is safe to drink, the USEPA and the California Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, 7, and 8 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA						
Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of months in violation	МС	L	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a mo.) 1	1	More than 1 sam with a detection	ple in a month	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	(In the year) 0	0	A routine sample sample detect to and either sampl fecal coliform or	tal coliform e also detects	0	Human and animal fecal waste
TABLE 2	- SAMPLIN	G RESUL	TS SHOWING	THE DETE	CTION OF	LEAD AND COPPER
Lead and Copper (complete if lead or copper detected in the last sample set)	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	5	ND	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	5	0.755	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
	TABLE 3 -	- SAMPLI	NG RESULTS	FOR SODIU	M AND H	ARDNESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	06/04/2012	100		none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	06/04/2012	470		none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

^{*}Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided later in this report.

TABLE 4 – DET	ECTION OI	F CONTAN	MINANTS WI	TH A <u>PRIN</u>	MARY DRIN	IKING WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Arsenic ppb	6/04/2012	3.8		10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Fluoride Ppm	6/04/2012	0.25		2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as nitrate, NO ₃) ppm	10/9/2012	19	18 - 20	45	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
TABLE 5 – DETEC	CTION OF	CONTAMI	NANTS WITI	H A <u>SECO</u>	NDARY DRI	INKING WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Specific Conductance µS/cm	6/04/2012	1200		1600		Substances that form ions when in water; seawater influence
Sulfate ppm	6/04/2012	81		500		Runoff/leaching from natural deposits; industrial wastes
Chloride ppm	6/04/2012	44		500		Runoff/leaching from natural deposits; seawater influence
Total Dissolved Solids (TDS) ppm	6/04/2012	640		1000		Runoff/leaching from natural deposits
Manganese ppb	6/04/2012	11		50		Leaching from natural deposits
	TABLE 6	– DETEC	TION OF UNR	EGULATI	ED CONTAI	MINANTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notifica	tion Level	Health Effects Language
Boron ppm	6/04/2012	0.950		1 ppm		The babies of some pregnant women who drink water containing boron in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals.
Vanadium ppb	6/04/2012	14		50 ppb		The babies of some pregnant women who drink water containing boron in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals.

^{*}Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

Additional General Information on Drinking Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by

N/A

Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

VIOLATION	VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT					
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language		
Total Coliform Bacteria (Total Coliform Rule)	On 12/3/12, the main source came back as a positive for Total Coliform, Yolo County came out on 12/5/12 and resampled from 4 different areas. Two of four samples came back as positive (Well sink and main lab).	72 hours	The well and distribution lines were sanitized and flushed on 12/20/12. All repeat samples were absent for Total Coliform. The water is tested each month and there has not been a positive sample since this incident.	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.		

For Water Systems Providing Ground Water as a Source of Drinking Water

TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLES					
Microbiological Contaminants (complete if fecal-indicator detected)	Total No. of Detections	Sample Dates	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
E. coli	(In the year)		0	(0)	Human and animal fecal waste
Enterococci	(In the year)		TT	n/a	Human and animal fecal waste
Coliphage	(In the year)		TT	n/a	Human and animal fecal waste

Summary Information for Fecal Indicator-Positive Ground Water Source Samples, Uncorrected Significant Deficiencies, or Ground Water TT

SPECIAL 1	NOTICE OF FECAL IND	ICATOR-POSITIVE GR	OUND WATER SOURCE S	SAMPLE
N/A				
1	SPECIAL NOTICE FOR	UNCORRECTED SIGNI	FICANT DEFICIENCIES	
N/A				
	VIOLA	TION OF GROUND WA	TER TT	
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
N/A				
	Summary Informati	ion for Violation of	a Surface Water TT	
	VIOLAT	ION OF A SURFACE WA	ATER TT	
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
N/A				
Sumi	mary Information fo	r Operating Under	a Variance or Exemp	tion